Q
Power Plan
2018-08-29

Grid Q

Q	300kVA
	400A 3ϕ
P_o	300 kW
U	400 V
Z_e	0.06987 Ω (13.1%)
Load	94.5 kW

400A 3ϕ 120mm²
10m (7.9m spare)

Q-Dist	SPEC-4
400A 3ϕ	2 × 125A 3ϕ
	4 × 63A 3ϕ
Z_s	0.07447 Ω
$I_{pf\ (L-N)}$	3101.3 A (7.8I_n)
V_{drop}	1.09 V (0.5%)
Load	94.5 kW

125A 3ϕ 35mm²
25m + 10m (6.6m spare)

Catering	GBR-2
125A 3ϕ	63A 3ϕ
	2 × 32A 3ϕ
	12 × 32A 1ϕ
	6 × 16A 1ϕ
Z_s	0.1165 Ω
$I_{pf\ (L-N)}$	1982.9 A (15.9I_n)
V_{drop}	3.24 V (1.4%)
Load	20.5 kW

32A 3ϕ 6mm²
10m (0.8m spare)

Catering-2	EPS/32
32A 3ϕ	32A 3ϕ
	9 × 16A 1ϕ
Z_s	0.1895 Ω
$I_{pf\ (L-N)}$	1218.9 A (38.1I_n)
V_{drop}	4.15 V (1.8%)
Load	5 kW

16A 2.5mm²
25m (0.7m spare)

L1	TOB/16
16A 1ϕ	14 × 13A 1ϕ
Z_s	0.5165 Ω
$I_{pf\ (L-N)}$	447.15 A (27.9I_n)
V_{drop}	3.74 V (1.6%)
Load	0.5 kW

125A 3ϕ 35mm²
25m (1.5m spare)

Arcade-Split	SBR
125A 3ϕ	4 × 63A 3ϕ
Z_s	0.1045 Ω
$I_{pf\ (L-N)}$	2210.7 A (17.7I_n)
V_{drop}	4.54 V (2.0%)
Load	46.0 kW

63A 3ϕ 16mm²
50m + 25m (20.5m spare)

StageC	Powercube
63A 3ϕ	8 × 16A 1ϕ
	18 × 10A 1ϕ
Z_s	0.307 Ω
$I_{pf\ (L-N)}$	752.33 A (11.9I_n)
V_{drop}	9.6 V (4.2%)
Load	10 kW

63A 3ϕ 16mm²
50m (1.9m spare)

Spillout	EPS/63-3
63A 3ϕ	63A 3ϕ
	6 × 32A 1ϕ
	6 × 16A 1ϕ
Z_s	0.2395 Ω
$I_{pf\ (L-N)}$	964.39 A (15.3I_n)
V_{drop}	9.26 V (4.0%)
Load	14 kW

63A 3ϕ 16mm²
25m (11.6m spare)
63A 3ϕ 16mm²
50m + 25m (13.6m spare)

Arcade	EPS/63-3
63A 3ϕ	63A 3ϕ
	6 × 32A 1ϕ
	6 × 16A 1ϕ
Z_s	0.172 Ω
$I_{pf\ (L-N)}$	1342.9 A (21.3I_n)
V_{drop}	6.22 V (2.7%)
Load	10.0 kW

63A 3ϕ 16mm²
50m (2.0m spare)

G1	EPS/63-3
63A 3ϕ	63A 3ϕ
	6 × 32A 1ϕ
	6 × 16A 1ϕ
Z_s	0.3745 Ω
$I_{pf\ (L-N)}$	616.72 A (9.8I_n)
V_{drop}	13.3 V (5.8%)
Load	12 kW

63A 3ϕ 16mm²
25m (5.7m spare)

Adap3	ADAP63/125
63A 3ϕ	125A 3ϕ
Z_s	0.442 Ω
$I_{pf\ (L-N)}$	522.53 A (8.3I_n)
V_{drop}	14.2 V (6.1%)
Load	5 kW

AMF-Lighting Q	Link
125A 3ϕ	

32A 6mm²
10m + 5m (3.0m spare)

G1-32	TOB/32
32A 1ϕ	14 × 13A 1ϕ
Z_s	0.484 Ω
$I_{pf\ (L-N)}$	477.18 A (14.9I_n)
V_{drop}	13.9 V (6.0%)
Load	2 kW

32A 6mm²
10m (0.9m spare)

Arcade-1	SOB
32A 1ϕ	32A 1ϕ
	8 × 16A 1ϕ
Z_s	0.245 Ω
$I_{pf\ (L-N)}$	942.74 A (29.5I_n)
V_{drop}	6.22 V (2.7%)

16A 2.5mm²
10m (4.6m spare)

Arcade-3	TOB/16
16A 1ϕ	14 × 13A 1ϕ
Z_s	0.405 Ω
$I_{pf\ (L-N)}$	570.27 A (35.6I_n)
V_{drop}	6.22 V (2.7%)

32A 6mm²
5m (2.2m spare)

Arcade-2	SOB
32A 1ϕ	32A 1ϕ
	8 × 16A 1ϕ
Z_s	0.2085 Ω
$I_{pf\ (L-N)}$	1107.8 A (34.6I_n)
V_{drop}	6.22 V (2.7%)

16A 2.5mm²
10m (0.8m spare)

Arcade-4	TOB/16
16A 1ϕ	14 × 13A 1ϕ
Z_s	0.3685 Ω
$I_{pf\ (L-N)}$	626.76 A (39.2I_n)
V_{drop}	6.22 V (2.7%)

16A 2.5mm²
5m (2.2m spare)

Arcade-5	TOB/16
16A 1ϕ	14 × 13A 1ϕ
Z_s	0.252 Ω
$I_{pf\ (L-N)}$	916.55 A (57.3I_n)
V_{drop}	6.22 V (2.7%)

63A 3ϕ 16mm²
25m (0.6m spare)

Belgium-Split	TH
63A 3ϕ	63A 3ϕ
	32A 3ϕ
Z_s	0.3745 Ω
$I_{pf\ (L-N)}$	616.72 A (9.8I_n)
V_{drop}	12.1 V (5.3%)
Load	9 kW

63A 3ϕ 16mm²
10m (5.9m spare)

G2	EPS/63-3
63A 3ϕ	63A 3ϕ
	6 × 32A 1ϕ
	6 × 16A 1ϕ
Z_s	0.4015 Ω
$I_{pf\ (L-N)}$	575.24 A (9.1I_n)
V_{drop}	12.5 V (5.4%)
Load	6 kW

32A 6mm²
10m + 5m (1.7m spare)

G2-32	TOB/32
32A 1ϕ	14 × 13A 1ϕ
Z_s	0.511 Ω
$I_{pf\ (L-N)}$	451.97 A (14.1I_n)
V_{drop}	12.8 V (5.5%)
Load	1 kW

32A 6mm²
50m (3.9m spare)

32A 6mm²
10m (1.3m spare)

Lounge-3	TOB/32
32A 1ϕ	14 × 13A 1ϕ
Z_s	0.672 Ω
$I_{pf\ (L-N)}$	343.68 A (10.7I_n)
V_{drop}	11.5 V (5.0%)
Load	1 kW

32A 6mm²
5m (2.0m spare)

Lounge-2	TOB/32
32A 1ϕ	14 × 13A 1ϕ
Z_s	0.38 Ω
$I_{pf\ (L-N)}$	607.79 A (19.0I_n)
V_{drop}	10.8 V (4.7%)
Load	1 kW

Lounge-1	TOB/32
32A 1ϕ	14 × 13A 1ϕ
Z_s	0.3435 Ω
$I_{pf\ (L-N)}$	672.38 A (21.0I_n)
V_{drop}	10.7 V (4.6%)
Load	1 kW

63A 3ϕ 16mm²
50m (3.5m spare)

Workshop2	EPS/63-3
63A 3ϕ	63A 3ϕ
	6 × 32A 1ϕ
	6 × 16A 1ϕ
Z_s	0.2095 Ω
$I_{pf\ (L-N)}$	1102.5 A (17.5I_n)
Load	9 kW

63A 3ϕ 16mm²
50m (2.2m spare)

32A 6mm²
10m + 5m (3.1m spare)

Badge	TOB/32
32A 1ϕ	14 × 13A 1ϕ
Z_s	0.319 Ω
$I_{pf\ (L-N)}$	724.03 A (22.6I_n)
V_{drop}	4.67 V (2.0%)
Load	2 kW

32A 6mm²
10m (0.2m spare)
32A 6mm²
5m (0.6m spare)

Workshop2-32	TOB/32
32A 1ϕ	14 × 13A 1ϕ
Z_s	0.2825 Ω
$I_{pf\ (L-N)}$	817.58 A (25.5I_n)
V_{drop}	4.49 V (1.9%)
Load	2 kW

C2-32	TOB/32
32A 1ϕ	14 × 13A 1ϕ
Z_s	0.246 Ω
$I_{pf\ (L-N)}$	938.91 A (29.3I_n)
V_{drop}	4.58 V (2.0%)
Load	5 kW

32A 6mm²
25m + 10m (6.8m spare)

Cybar-5	SOB
32A 1ϕ	32A 1ϕ
	8 × 16A 1ϕ
Z_s	0.465 Ω
$I_{pf\ (L-N)}$	496.68 A (15.5I_n)
V_{drop}	10.3 V (4.5%)
Load	6 kW

32A 6mm²
10m + 5m (3.3m spare)

Cybar-Dome	SOB
32A 1ϕ	32A 1ϕ
	8 × 16A 1ϕ
Z_s	0.5745 Ω
$I_{pf\ (L-N)}$	402.01 A (12.6I_n)
V_{drop}	11.7 V (5.1%)
Load	5 kW

63A 3ϕ 16mm²
50m (9.7m spare)

Cybar	EPS/63-3
63A 3ϕ	63A 3ϕ
	6 × 32A 1ϕ
	6 × 16A 1ϕ
Z_s	0.2095 Ω
$I_{pf\ (L-N)}$	1102.5 A (17.5I_n)
V_{drop}	6.49 V (2.8%)
Load	16 kW

32A 6mm²
10m (2.4m spare)
32A 6mm²
10m (3.3m spare)

Cybar-1	SOB
32A 1ϕ	32A 1ϕ
	8 × 16A 1ϕ
Z_s	0.2825 Ω
$I_{pf\ (L-N)}$	817.58 A (25.5I_n)
V_{drop}	7.03 V (3.0%)
Load	3 kW

32A 6mm²
25m (6.1m spare)

Cybar-2	SOB
32A 1ϕ	32A 1ϕ
	8 × 16A 1ϕ
Z_s	0.465 Ω
$I_{pf\ (L-N)}$	496.68 A (15.5I_n)
V_{drop}	7.95 V (3.4%)
Load	2 kW

32A 6mm²
25m (7.7m spare)

Cybar-Workshop	TOB/32
32A 1ϕ	14 × 13A 1ϕ
Z_s	0.6475 Ω
$I_{pf\ (L-N)}$	356.68 A (11.1I_n)
V_{drop}	8.4 V (3.6%)
Load	1 kW

32A 6mm²
10m (3.3m spare)

Cybar-Bar	TOB/32
32A 1ϕ	14 × 13A 1ϕ
Z_s	0.2825 Ω
$I_{pf\ (L-N)}$	817.58 A (25.5I_n)
V_{drop}	7.4 V (3.2%)
Load	5 kW

32A 6mm²
10m (1.6m spare)

Cybar-3	SOB
32A 1ϕ	32A 1ϕ
	8 × 16A 1ϕ
Z_s	0.2825 Ω
$I_{pf\ (L-N)}$	817.58 A (25.5I_n)
V_{drop}	6.85 V (3.0%)
Load	2 kW

Cybar-4	SOB
32A 1ϕ	32A 1ϕ
	8 × 16A 1ϕ
Z_s	0.3555 Ω
$I_{pf\ (L-N)}$	649.68 A (20.3I_n)
V_{drop}	7.03 V (3.0%)
Load	1 kW

32A 6mm²
5m (0.5m spare)

FirstAid	TOB/32
32A 1ϕ	14 × 13A 1ϕ
Z_s	0.246 Ω
$I_{pf\ (L-N)}$	938.91 A (29.3I_n)
V_{drop}	2.19 V (0.9%)
Load	1 kW

32A 6mm²
5m (0.5m spare)

GreenRoom	EPS/63-3
63A 3ϕ	63A 3ϕ
	6 × 32A 1ϕ
	6 × 16A 1ϕ
Z_s	0.2095 Ω
$I_{pf\ (L-N)}$	1102.5 A (17.5I_n)
V_{drop}	2.1 V (0.9%)
Load	3 kW

GreenRoom-32	TOB/32
32A 1ϕ	14 × 13A 1ϕ
Z_s	0.246 Ω
$I_{pf\ (L-N)}$	938.91 A (29.3I_n)
V_{drop}	2.19 V (0.9%)
Load	1 kW

32A 6mm²
25m (5.5m spare)

Info	TOB/32
32A 1ϕ	14 × 13A 1ϕ
Z_s	0.392 Ω
$I_{pf\ (L-N)}$	589.18 A (18.4I_n)
V_{drop}	2.56 V (1.1%)
Load	1 kW